



Tecumseh

Performance Data Sheet

VSC5525ENA

General Information

Model	VSC5525ENA	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	8130	7380					
	Watts	1280	1410					
	Amps	7.08	7.31					
	Lb/h	104	99.2					
-10	Btu/h	9410	8640	7830				
	Watts	1300	1430	1570				
	Amps	7.28	7.58	7.85				
	Lb/h	120	115	110				
-5	Btu/h	10800	9990	9160	8280			
	Watts	1300	1440	1590	1740			
	Amps	7.42	7.77	8.10	8.53			
	Lb/h	137	132	127	121			
0	Btu/h	12300	11400	10600	9670	8700		
	Watts	1310	1450	1600	1760	1930		
	Amps	7.51	7.91	8.30	8.78	9.47		
	Lb/h	155	151	145	139	132		
5	Btu/h	13900	13000	12100	11200	10200		
	Watts	1310	1460	1610	1780	1960		
	Amps	7.56	8.00	8.43	8.97	9.71		
	Lb/h	174	170	165	159	152		
10	Btu/h	15600	14700	13700	12700	11700	10600	9410
	Watts	1310	1460	1620	1790	1980	2170	2350
	Amps	7.57	8.05	8.53	9.10	9.89	11.0	12.6
	Lb/h	195	191	186	180	173	165	156
15	Btu/h	17400	16500	15500	14400	13300	12200	11000
	Watts	1310	1460	1620	1800	1990	2190	2390
	Amps	7.55	8.07	8.58	9.19	10.0	11.2	12.8
	Lb/h	217	213	208	202	195	188	179
20	Btu/h	19400	18400	17400	16300	15100	13900	12600
	Watts	1310	1460	1620	1810	2000	2210	2420
	Amps	7.52	8.06	8.60	9.24	10.1	11.3	12.9
	Lb/h	240	236	231	226	219	212	203

25	Btu/h	21600	20500	19400	18200	17000	15700	14400
	Watts	1310	1450	1620	1810	2010	2220	2440
	Amps	7.47	8.03	8.60	9.27	10.2	11.4	13.1
	Lb/h	265	261	256	251	245	238	229
30	Btu/h	23900	22700	21500	20300	19000	17700	16300
	Watts	1310	1450	1620	1810	2010	2230	2460
	Amps	7.43	8.00	8.58	9.27	10.2	11.4	13.1
	Lb/h	291	287	283	278	272	265	257
35	Btu/h	26300	25100	23900	22600	21200	19800	18300
	Watts	1310	1450	1620	1810	2010	2240	2470
	Amps	7.39	7.97	8.56	9.27	10.2	11.5	13.2
	Lb/h	319	316	312	307	301	294	286
40	Btu/h	29000	27700	26300	25000	23500	22000	20400
	Watts	1310	1450	1610	1800	2010	2240	2480
	Amps	7.37	7.95	8.55	9.26	10.2	11.5	13.2
	Lb/h	349	346	342	337	332	325	318
45	Btu/h	31800	30400	29000	27500	26000	24400	22700
	Watts	1320	1450	1610	1800	2010	2240	2480
	Amps	7.37	7.95	8.54	9.26	10.2	11.5	13.2
	Lb/h	381	378	374	370	365	358	351
50	Btu/h	34900	33400	31800	30300	28600	27000	25200
	Watts	1330	1450	1610	1800	2010	2240	2490
	Amps	7.40	7.97	8.56	9.27	10.2	11.5	13.3
	Lb/h	414	412	408	404	399	393	386
55	Btu/h	38100	36500	34900	33200	31500	29700	27800
	Watts	1340	1460	1610	1800	2010	2240	2490
	Amps	7.48	8.03	8.60	9.30	10.2	11.5	13.3
	Lb/h	450	448	445	441	436	430	424

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.839688E+04	1.101489E+03	-9.512046E+00	1.709635E+02
C2	3.617763E+02	9.325122E+00	-4.091385E-02	3.546790E+00
C3	-8.060743E+01	-1.232786E+01	4.992558E-01	-6.863285E-02
C4	3.326288E+00	1.061476E-01	1.095251E-04	2.181127E-02
C5	-6.889767E-01	-2.653659E-01	4.336169E-04	1.242823E-03
C6	1.534015E-01	2.389611E-01	-5.057392E-03	-5.060039E-04
C7	1.217846E-02	9.724992E-04	1.121991E-05	1.266438E-04
C8	-1.305797E-02	-2.031271E-03	-1.222188E-05	1.389469E-05
C9	8.383898E-05	1.978343E-03	3.029698E-06	1.146078E-05
C10	-1.289413E-03	-6.550461E-04	1.845803E-05	-1.370911E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature